A solid oxide fuel cell system component which is adapted to be exposed to an oxidising 1. atmosphere in the fuel cell system and which is formed of a heat resistant alloy having a composition, in wt%, of:

$$0.1 - 3.8$$

≤

≤

≤

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Residue Fe, excluding incidental impurities.

A solid oxide fuel cell system component according to claim 1 which contains no more 2. than about 8.5 wt% Al.

- A solid oxide fuel cell system component according to claim 1 or 2 which contains less 3. than 0.05 wt% Mn.
- A solid oxide fuel cell system component according to any one of claims 1 to 3 wherein 4. the alloy has a composition, in wt%, of:

25

Al
$$6.0 \pm 1.0$$

$$1.0 \pm 0.5$$

30

$$Cr \leq 0.10$$

$$(Al + Si) = 6.5 \text{ to } 7.5$$

Residue Fe, excluding incidental impurities.

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- 5. A solid oxide fuel cell system component according to any one of the preceding claims wherein the alloy contains no Cr.
- 6. A solid oxide fuel cell system component according to any one of the preceding claims having a surface layer of Al₂O₃.
- 7. A solid oxide fuel cell system component according to claim 6 wherein the Al₂O₃ surface layer has a thickness in the range of from about 1 to about 10 microns, preferably from about 1 to about 3 microns.
- 8. A solid oxide fuel cell system component according to any one of the preceding claims wherein source material for the alloy at least includes scrap metal.
- 9. A solid oxide fuel cell system component according to any one of the preceding claims which is a gas separator disposed or adapted to be disposed between adjacent fuel cells in the system.
- 10. A solid oxide fuel cell system component according to any one of claims 1 to 8 which is a component selected from the group consisting of a manifold, a base plate, a current collector strap, ducting, a heat exchanger and a heat exchanger plate disposed or adapted to be disposed in the solid oxide fuel cell system.
- 11. A solid oxide fael cell system in which one or more components adapted to be exposed to a temperature in excess of 750°C and an oxidising atmosphere are in accordance with any one of the preceding claims.